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NOTICE OF ALLOWANCE AND FEE(S) DUE

20792

7590

02/07/2005

MYERS BIGEL SIBLEY & SAJOVEC PO BOX 37428 RALEIGH, NC 27627 EXAMINER
FAN, CHIEH M

PAPER NUMBER

ART UNIT

DATE MAILED: 02/07/2005

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/204 734	12/03/1998	GREGORY E BOTTOMI EV	8194-205	5861

TITLE OF INVENTION: DIGITAL RECEIVERS AND RECEIVING METHODS THAT SCALE FOR RELATIVE STRENGTHS OF TRAFFIC AND PILOT CHANNELS DURING SOFT HANDOFF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	\$1400	05/09/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSU EE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This for appropriate. All further con indicated unless corrected a maintenance fee notification	respondence including the l below or directed otherwise	smitting the ISSU Patent, advance or in Block 1, by (a	E FEE and ders and noti) specifying a	PUBLICATION FFF (if req	uired). Blocks 1 through 5 s will be mailed to the current s; and/or (b) indicating a sep	should be completed where a correspondence address as arate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of Fee(s) Transmittal. T	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.		
20792 7590 02/07/2005			have its own certifica	have its own certificate of mailing or transmission.			
MYERS BIGEL PO BOX 37428 RALEIGH, NC 27	SIBLEY & SAJOVE 627	EC		C	ertificate of Mailing or Tran this Fee(s) Transmittal is bein with sufficient postage for fin ail Stop ISSUE FEE address PTO (703) 746-4000, on the	smission	
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMEI	O INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/204,734	12/03/1998	G	REGORY E.	BOTTOMLEY	8194-205	5861	
TITLE OF INVENTION: D DURING SOFT HANDOFF		RECEIVING ME	ETHODS TH.	AT SCALE FOR RELATIVE	STRENGTHS OF TRAFFIC	C AND PILOT CHANNELS	
APPLN. TYPE	SMALL ENTITY	ISSUE FI	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1400)	\$0	\$1400	05/09/2005	
EXAM	IINER	ART UN	IT	CLASS-SUBCLASS			
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1 Change of correspondence	e address or indication of "Fe	a Address" (27	2 For prin	ting on the natest front nage	lint		
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 		Correspondence	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
	DECIDENCE DATA TO D	E BRINTER ON		*			
	RESIDENCE DATA TO B an assignee is identified be 37 CFR 3.11. Completion				gnee is identified below, the	document has been filed for	
(A) NAME OF ASSIGN				CE: (CITY and STATE OR CO			
		ries (will not be pr	inted on the p	atent): 🗖 Individual 📮	Corporation or other private gr	roup entity Government	
4a. The following fee(s) are	enclosed:	4b	Payment of	(-)			
Issue Fee			A check in the amount of the fee(s) is enclosed.				
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies		The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	(from status indicated above	•	L				
	MALL ENTITY status. See is requested to apply the Issu ublication Fee (if required) y				ALL ENTITY status. See 37 C sly paid issue fee to the applic gistered attorney or agent; or t		
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Authorized Signature Typed or printed name							
					the public which is to file (an		

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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MYERS BIGEL SIBLEY & SAJOVEC PO BOX 37428			FAN, CHIEH M	
RALEIGH, NC	27627		ART UNIT	PAPER NUMBER
·			2634	
			DATE MAILED: 02/07/200	5

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)			
•	09/204,734	BOTTOMLEY, GREGORY E.			
Notice of Allowability	Examiner	Art Unit			
	Chieh M Fan	2634			
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED (15) or other appropriate comm RIGHTS. This application is 113 and MPEP 1308.	in this application. If not included unication will be mailed in due course. THIS			
1. \boxtimes This communication is responsive to <u>the BPAI decision of</u>	on appeal dated 9/29/04.				
2. The allowed claim(s) is/are 6,28 and 34-39.					
3. \boxtimes The drawings filed on $\underline{7/23/02}$ are accepted by the Exam	niner.				
4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	ave been received.				
2. Certified copies of the priority documents ha					
3. Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	NMENT of this application.				
5. A SUBSTITUTE OATH OR DECLARATION must be sul INFORMAL PATENT APPLICATION (PTO-152) which g	bmitted. Note the attached Exgives reason(s) why the oath	(AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") n					
(a) including changes required by the Notice of Draftsp		ew (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date		as in the Office action of			
(b) ☐ including changes required by the attached Examin Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	R 1.84(c)) should be written on in the header according to 37 (the drawings in the front (not the back) of CFR 1.121(d).			
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT 	posit of BIOLOGICAL MA NT FOR THE DEPOSIT OF B	TERIAL must be submitted. Note the HOLOGICAL MATERIAL.			
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of	Informal Patent Application (PTO-152)			
Notice of References Cited (F10-092) Notice of Draftperson's Patent Drawing Review (PT0-94)	<u> </u>	Summary (PTO-413),			
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/S	Paper No	o./Mail Date 's Amendment/Comment			
Paper No./Mail Date	,, <u> </u>				
4. Examiner's Comment Regarding Requirement for Depos	sit 8. ⊠ Examiner 9. ☐ Other	's Statement of Reasons for Allowance			
of Biological Material	9. [_] Otilei	·			
		Chieh M Fan Primary Examiner Art Unit: 2634			

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DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. The amendment is made to (i) cancel claims 1, 5, 7-9, 12, 16-20, 23, 27 and 29-31 after the decision by the Board of Patent Appeals and Interferences mailed 9/29/04 and (ii) correct some obvious errors in claims 34 and 36. Should the changes and/or additions in item (ii) be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims:

- Claims 1, 5, 7-9, 12, 16-20, 23, 27 and 29-31 have been cancelled.
- In claim 34, line 20, "dividing the estimated power on a traffic channel" has been changed --- dividing the estimated power on the traffic channel ---.
- In claim 36, line 20, "means for dividing the estimated power on a traffic channel"
 has been changed --- means for dividing the estimated power on the traffic
 channel ---.

Statement of Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

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Regarding claim 6, the prior art of record does not teach that the step of forming scale factors comprises the steps of forming an error signal using the pilot channel despread values and traffic channel despread values and computing a scale factor based on the error signal.

Regarding claim 28, the prior art of record does not teach an error signal generator that is responsive to the pilot channel despread values and the traffic channel despread values.

Regarding claims 34 and 35, the prior art of record does not teach that the step of forming scale factors comprises the steps of estimating the power of a pilot channel, estimating the power of a traffic channel, dividing the estimated power of the traffic channel by the estimated power on the pilot channel to produce a power ratio, and obtaining a square root of the power ratio to produce the scale factor.

Regarding claims 36 and 37, the prior art of record does not teach that the means for forming scale factors comprises the means for estimating the power of a pilot channel, means for estimating the power of a traffic channel, means for dividing the estimated power of the traffic channel by the estimated power on the pilot channel to produce a power ratio, and means for obtaining a square root of the power ratio to produce the scale factor.

Regarding claims 38 and 39, the prior art of record does not teach that the scale factor estimator comprises the a pilot channel power estimator, a traffic channel power estimator, a divider that is responsive to the pilot channel power estimator and to the

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traffic channel power estimator, and a square root calculator that is responsive to the

divider.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chieh M Fan whose telephone number is (571) 272-

3042. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM,

Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 872-9306

for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

4700.

Chieh M Fan

Primary Examiner

iel Min I

Art Unit 2634

cmf

January 27, 2005

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